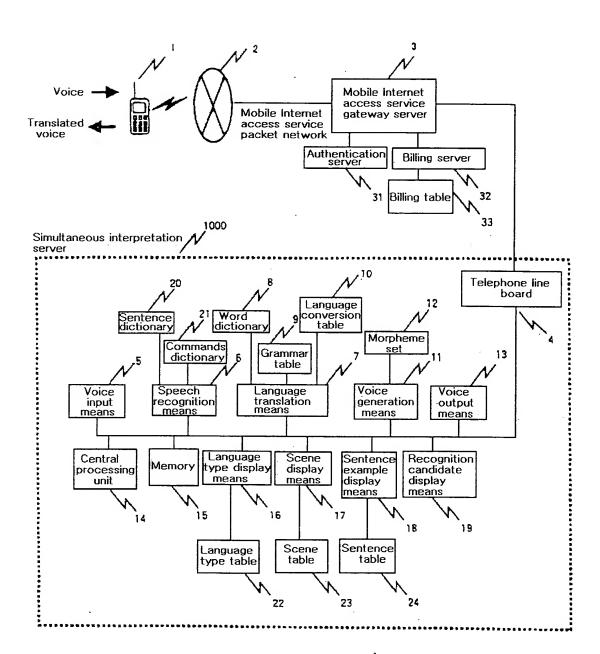
APPLN. FILING DATE: NOVEMBER 6, 2003 TITLE: THIRD-PARTY CALL CONTROL TYPE SIMULTANEOUS INTERPRETATION SYSTEM AND

METHOD THEREOF

INVENTOR(S): JAE-WON LEE ET AL ATTY. DOCKET No.: 033808-006 SHEET 1 OF 7

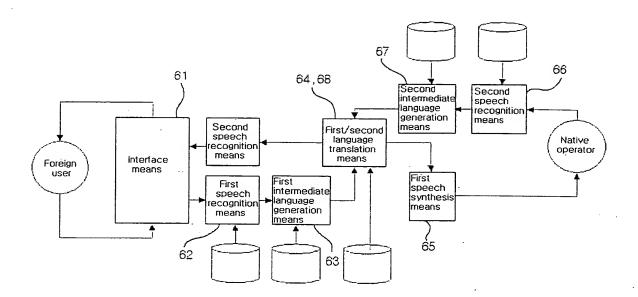
FIG. 1



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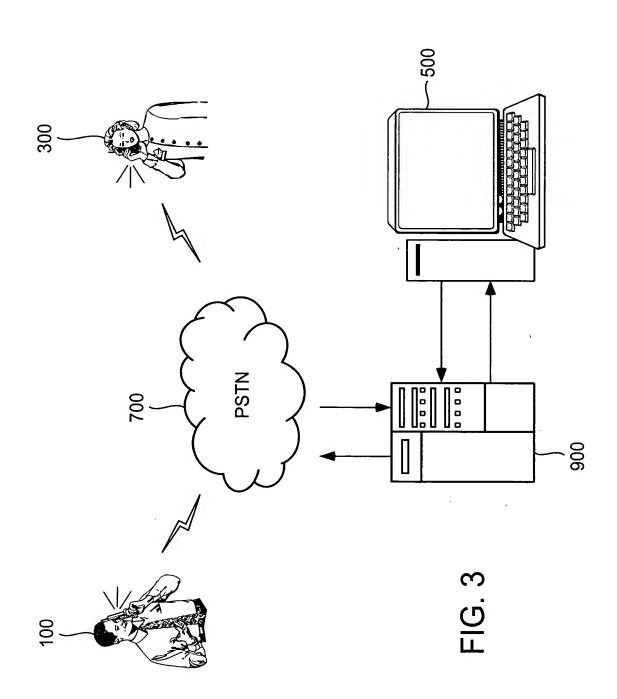
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FIG. 2



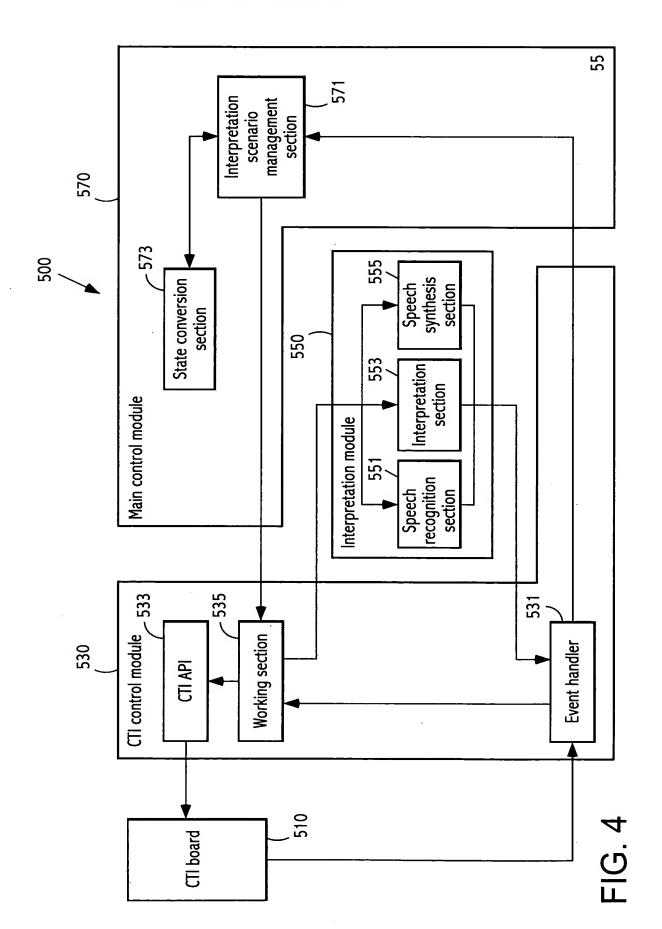
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Speech recognition ATDX_STATE ATDX_STATE: TDX_RECORD (RecogSpeech) dx_setdevuio Listening dx_stopch dx_rec delay delay (IB_PlayTTS) TDX_PLAY synthesis Speaking dx_stopch Speech dx_play delay delay (JB_RecordVoice) Sound hearing ATDX STATE TDX_RECORD dx_fileclose dx_fileopen dx_stopch delay dx_rec delay Button pressing Button reading Tone detection Sound emitting (JB_PlayVoice) ATDX_STATE dx_fileclose TDX_PLAY: dx_fileopen dx_stopch dx_play delay delay (JB_WaitTone) dx_deltones dx_addtone dx_blddt TDX_CST delay TDX_GETDIG (JB_GetDigit) dx_clrdigbuf dx_getdig delay TDX_PLAYTONE (JB_PlayTone) dx_addtone dx_playtone dx_blddt delay (JB_Disconnect) disconnection ATDX_STATE dx_sethook dx_stopch TDX_CST Phone delay delay JB_WaitCall) dx_sethook answering TDX CST Phone delay Phone dialing ATDX_CONTYPE JB_SendCall) ATDX CPTERM DX_CALLP dx_clrcap dx_dial delay

FIG. 5

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FIG. 6

Current state	Event	Action	Remarks	
ST_START	EVT_WAITCALL	OnGotoPlayWelcomeMent	Start - Phone answering (1)	Phone connection step Automatic interpretation step
	EVT_ERROR	EVT_ERROR	Start - Filotie arisweiling (1)	
ST_PLAYWELCOMEMENT	EVT_PLAYVOICE	OnEndPlayWelcomeMent	Output of welcome message (②)	
	EVT_D!SCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYPHONENUMMENT	EVT_PLAYVOICE	OnEndPiayPhoneNumMent	Output of message for phone number input (③)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGo toReset		
ST_GETPHONENUMDIGIT	EVT_GETDIGIT	OnEndGetPhoneNumDigit	DTMF tone detection (④)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	0nGotoReset		
ST_PLAYOUTBOUNDCALLMENT	EVT_PLAYVOICE	OnEndPlayOutboundCallMent	Output of call connection announcement (⑤)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYCONNECTFALMENT	EVT_PLAYV01CE	OnEndPlayConnectFailMent	Output of call connection fail message (⑤) Output of call connection success message (⑦) Output of use announcement (⑧) Start of voice recording> select '* button(⑥)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGo toReset		
	EVT_PLAYVOICE	OnEndPlayConnectSuccessMent		
ST_PLAYCONNECTSUCCESSMENT	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
	EVT_PLAYVOICE	OnEndPlayIntroduceMent		
ST_PLAYINTRODUCEMENT	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
	EVT_PLAYVOICE	OnEndGetRecogStartDigit		
ST_GETRECOGSTARTDIGIT	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
	EVT_PLAYVOICE	OnEndGetRecogStopDigit	Termination of voice recording	
ST_GETRECOGSTOPDIGIT	EVT_DISCONNECT	OnGotoStart	> select '#' button (10)	
	EVT_ERROR	OnGotoReset		
ST_SPEECHRECOG	EVT_RECOGSPEECH	OnEndSpeechRecog	Speech recognition (1111)	
	EVT_DISCONNECT	OnGotoStart .		
	EVT_ERROR	OnGotoReset		
ST_PLAYRECOGFAILMENT	EVT_PLAYVOICE	OnEndPlayRécogFailMent	Output of speech recognition tail message (@)	
		OnGotoStar:		
	EVT_DISCONNECT EVT_ERROR			
		OnGotoReset	Recognized sentence to speech synthesis (**) Translation of recognized sentence (**)	
ST_PLAYTTSRECOGSENTENCE	EVT_PLAYVOICE	OnEndPiayTtsRecogSentence		
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_TRANSRECOGSENTENCE	EVT_TRANS	OnEndTransRecogSentence		
	EVT_DISCONNECT	0nGotoStart		
	EVT_ERROR	0nGotoReset		
ST_PLAYTTSTRANSSENTENCE	EVT_PLAYVOICE	OnEndPlayTtsTransSentence	Translated sentence to speech synthesis (6)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	0nGotoReset		
ST_OUTTRANSSENTENCE	EVT_PLAYV01CE	OnEndOutTransSentence	Output of translated sentence (%)	Interpretation Transmission step
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGo toReset		
ST_PLAYRCVWATTMENT	EVT_RCVSENTENCE	OnEndGetRcvSentence	Receipt of answer sentence ((iii))	
	EVT_NOTRCV	OnGotoPlayIntroduceWent		
ST_OUTRCVSENTENCE	EVT_ERROR	OnGotoReset	Output of answer sentence (13)	
	EVT_PLAYVOICE	OnEndOutRcvSentence		
	EVT_DISCONNECT	OnGotoStart		
	-EVT_ERROR	OnGo toRese t		
ST_PLAYD I NGDONGMENT	EVT_PLAYVOICE	OnEndPlayDingdongMent	End of sentence output	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset	<u> </u>	
	L CUT DISCONDICCT	. OnGotoStart	1	
	EVT_DISCONNECT			
ST_ERROR	EVT_PLAYVOICE EVT_ERROR	OnGotoReset	Error processing	

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FIG. 7

